

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.: MO-0102172

Owner: City of Liberty
Address: 101 East Kansas Street, Liberty, MO 64068

Continuing Authority: Same as above
Address: Same as above

Facility Name: Liberty Purge Wells
Address: 3 miles south of Liberty, MO 64068

Legal Description: S $\frac{1}{2}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 28, T51N, R31W, Clay County

Receiving Stream: Town Branch (U)
First Classified Stream and ID: Shoal Creek (P) (00396)
USGS Basin & Sub-watershed No.: (10300101-049001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - Combined Wells - SIC #9999

Combined Design Flow is 2.256 MGD.

Purge Well

Design flow is 1.5 MGD.

Actual flow is 1.5 MGD.

Drinking Water Production Well

Design flow is 0.756 MGD.

Actual flow is 0.756 MGD.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

January 21, 2005

Effective Date

Michael D. Wells, Acting Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

January 20, 2010

Expiration Date
MO 780-0041 (10-93)

Jim Hull, Director of Staff, Clean Water Commission

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 2 of 4	
					PERMIT NUMBER MO-0102172	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 - Purge Well and Drinking Water Production Well (Note 1)						
Flow	MGD	*		*	daily	24 hr. total
pH - Units	SU	***		***	once/month**	grab
Trichloroethylene (TCE)	mg/L	0.020		0.020	once/month**	grab
1,1 Dichloroethylene (1,1-DCE)	mg/L	0.028		0.028	once/month**	grab
Vinyl Chloride (VC)	mg/L	0.008		0.008	once/month **	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>March 28, 2005</u> .						
Downstream Monitoring in Town Branch before mixing with the discharge for Liberty's East Lagoon, NE ¼, SE ¼, Sec. 29, T51N, R31W, Clay County						
Trichloroethylene (TCE)	mg/L	*		*	once/quarter****	grab
Vinyl Chloride (VC)	mg/L	*		*	once/quarter****	grab
Aquifer Monitoring in the monitoring wells, in NW ¼, Sec. 28, T51N, R31W, Clay County						
Trichloroethylene (TCE)	mg/L	*		*	once/quarter****	grab
Vinyl Chloride (VC)	mg/L	*		*	once/quarter****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>April 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** If a monthly sample exceeds the effluent limits, the City will:
 1. Notify the Regional Office of Missouri Department of Natural Resources of concentration.
 2. Implement corrective actions.
 3. Sample discharge in the following week to show that the corrective action is effective. Continue weekly sampling until compliance with effluent limit is achieved.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

*** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

**** Once a quarter in the months of January, April, July and October.

Note 1 - Sampling requirements at the Drinking Water Production Well may cease once the Water Protection Program has been notified that the well has been returned to service. This well will be reported as no-discharge during the remaining reporting periods following notification.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. This permit may be reopened and modified or alternatively revoked and reissued to incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analyses, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the states water quality standards.
4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 ug/L);
 - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

C. SPECIAL CONDITIONS (continued)

5. Report as no-discharge when a discharge does not occur during the report period.
6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

D. SCHEDULE OF COMPLIANCE

A one-time analysis of Outfall #001 for the following analyses will be required to be submitted by December 30, 2004.

Contaminant	Abbreviation
Trichloroethylene or (ethene)	TCE
Tetrachloroethylene or (ethene)	PCE
1,1 Dichloroethylene or (ethene)	1,1-DCE
Cis 1,2 Dichloroethylene	cis-1,2-DCE
Trans-1,2 Dichloroethylene	trans-1,2-DCE
1,1,1 Trichloroethane	1,1,1-TCA or TCA
1,1,2 Trichloroethane	1,1,2 TCA
Vinyl Chloride	VC

Copies of the results of this one time only analysis must be submitted to the Kansas City Regional Office and the Water Protection Program, Water Pollution Branch, NPDES Permits and Engineering Section, P.O. Box 176, Jefferson City, Missouri 65102.